

ABSTRACT

5 A virtual reality game system and method uses pseudo drivers to generate stereo
vision outputs for a 3D stereoscopic display from game software normally intended for output to
a 2D display of a conventional game console or PC. The Pseudo Drivers can convert the game
data output of 3D video game software written in different application programming interface
(API) formats commonly used for PC games to "stereo vision", thereby allowing hundreds of
10 existing 3D games to be played on a virtual reality game system. The intercepted 3D game data
can be stored in a 3D data recorder for later play back. The 3D game data can also be transmitted
or downloaded to a remote player through an online interface. The intercepted 3D game data can
be combined with other 3D content through a mixer and dual rendering system, which facilitates
control of the 3D display before, during, and after a game, and particularly when switching
15 between different games. The Pseudo Driver for the 3D display can be operated in tandem with
other pseudo drivers such as for stereo sound and/or directional force feedback.